

**HYBRID POWERTRAIN SYSTEM INCLUDING SMOOTH  
SHIFTING AUTOMATED TRANSMISSION**

**ABSTRACT OF THE DISCLOSURE**

A powertrain system is provided that includes a prime mover and a change-gear transmission having an input, at least two gear ratios, and an output. The powertrain system also includes a power shunt configured to route power applied to the transmission by one of the input and the output to the other one of the input and the output. A transmission system and a method for facilitating shifting of a transmission system are also provided.

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